

- B) at least one aliphatic compound containing at least two isocyanate-reactive functional groups and/or water, and
- C) at least one olefinically unsaturated compound containing an isocyanate-reactive functional group.

2. (Amended) The aliphatic polyurethane of claim 1, wherein the polyurethane has a melting range from 0.5 to 10°C.

3. (Amended) The aliphatic polyurethane of claim 1, wherein the polyurethane has a sharp melting point.

4. (Amended) The aliphatic polyurethane of claim 1, wherein the polyurethane has a very narrow melting range or a sharp melting point in the temperature range from 60 to 185°C.

5. (Amended) The aliphatic polyurethane of claim 1, wherein the polyurethane contains terminal and/or lateral olefinically unsaturated double bonds.

6. (Amended) The aliphatic polyurethane of claim 5, wherein the olefinically unsaturated double bonds are present in (meth)acrylate, vinyl ether, vinyl ester, allyl, allyl ether and/or allyl ester groups.

7. (Amended) The aliphatic polyurethane of claim 1, wherein the linear aliphatic diisocyanate A) represents a monomeric diisocyanate, an oligomeric diisocyanate, a polymeric diisocyanate or mixtures thereof, derived from

- A) at least one linear aliphatic diisocyanate and
- B) at least one aliphatic compound containing at least two isocyanate-reactive functional groups.

8. (Amended) The aliphatic polyurethane of claim 1, wherein the isocyanate-reactive functional groups are amino groups, thiol groups or hydroxyl groups.

9. (Amended) The aliphatic polyurethane of claim 8, wherein the aliphatic compound B) is linear.

10. (Amended) The aliphatic polyurethane of claim 9, wherein the linear aliphatic compound B) is a diamine, triamine, amino alcohol containing at least one amino group and at least one hydroxyl group, diol, triol, tetrol, sugar alcohol or mixtures thereof.

11. (Amended) The aliphatic polyurethane of claim 10, wherein the linear aliphatic compound B) is a low molecular weight diol, triol, a tetrol, a sugar alcohol having a molecular weight of from 62 to 200 daltons, a linear aliphatic oligomeric polyesterdiol, polymeric polyesterdiol, or polyetherdiol.

12. (Amended) The aliphatic polyurethane of claim 1, wherein

- (1) at least one diisocyanate A) is reacted with at least one compound C) in a molar ratio A):C) of 1:1 to give an adduct A/C) containing one isocyanate group and one olefinically unsaturated group, and then
- (2) the adduct A/C) is reacted with at least one compound B) in a molar ratio A/C):B) of x:1, wherein x is the number of the isocyanate-reactive groups in the at least one compound B), to give the aliphatic polyurethane.

13. (Amended) The aliphatic polyurethane of claim 1, wherein

- (1) at least one diisocyanate A) is reacted with at least one compound B) in a molar ratio A):B) of x:1, wherein x is the number of the isocyanate-reactive groups in the at least one compound B) to give the adduct A/B) containing x isocyanate groups, and then

(2) the adduct A/B) is reacted with at least one compound C) in a molar ratio C):A/B) of x:1, wherein x is the number of the isocyanate groups in the adduct A/B) to give the aliphatic polyurethane.

14. (Amended) The aliphatic polyurethane of claim 12 wherein x is a number from 2 to 6.

15. (Amended) The aliphatic polyurethane of claim 1, wherein the soft phase has a glass transition temperature Tg <25°C.

17. (Amended) A powder coating material curable thermally and/or curable with actinic radiation which comprises at least one aliphatic polyurethane according to claim 1.

18. (Amended) The powder coating material of claim 17, further comprising oligomers and/or polymers which are curable thermally and/or with actinic radiation and have a glass transition temperature Tg of more than 40°C.

19. (Amended) The powder coating material of claim 17 further comprising one or more customary coatings additives.

20. (Amended) The powder coating material of claim 17, wherein the powder coating material is in the form of a powder slurry coating material.

21. (Amended) A coating derived from a powder coating material according to claim 17.

22. (Amended) Primed and unprimed substrates comprising at least one coating according to claim 20.

Please add the following new claims.

23. (New) The aliphatic polyurethane of claim 1, wherein the polyurethane has a melting range of from 1 to 6°C.

24. (New) The aliphatic polyurethane of claim 6 wherein, the olefinically unsaturated double bonds are present in methacrylate groups, acrylate groups or mixtures thereof.

25. (New) The aliphatic polyurethane of claim 6, wherein the olefinically unsaturated double bonds are present in acrylate groups.

26. (New) The aliphatic polyurethane of claim 5, wherein the olefinically unsaturated double bonds are terminal.

27. (New) The aliphatic polyurethane of claim 1, wherein the isocyanate-reactive functional groups are amino groups, hydroxyl groups, or mixtures thereof.

28. (New) The aliphatic polyurethane of claim 1, wherein the isocyanate-reactive functional groups are hydroxyl groups.

29. (New) The aliphatic polyurethane of claim 12, wherein x is a whole number.

30. (New) The primed and unprimed substrates of claim 22, wherein the substrates are bodies of automobiles, bodies of commercial vehicles, industrial components, plastic parts, packaging, coils, electrical components, or furniture.

31. (New) A method for preparing powder coating materials, said method comprising mixing the aliphatic polyurethane according to claim 1 with a coating material to form a powder coating material.